



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/601,997	12/15/2000	James G. Keck	21121-007US1 / 2307US	5984
20985	7590	03/26/2007	EXAMINER	
FISH & RICHARDSON, PC P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			EPPS FORD, JANET L	
			ART UNIT	PAPER NUMBER
			1633	
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	03/26/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)
	09/601,997	KECK, JAMES G.
	Examiner	Art Unit
	Janet L. Epps-Ford	1633

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 3/16/07-Petition Decision.
2a) This action is FINAL. 2b) This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 9-14 and 58-73 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 9-14, and 58-73 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____.
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date
5) Notice of Informal Patent Application
6) Other: ____.

DETAILED ACTION

1. The finality of the Final Office action mailed October 18, 2006 was withdrawn. The withdrawal of finality was based upon the Petition Decision in reply to Applicant's Petition filed under 37 CFR § 1.181 on 10/30/2006, and the Petition Decision in reply to Applicant's Request for Reconsideration of Petition filed under 37 CFR § 1.181 on 1/16/2007. In both cases, the petitions were GRANTED-IN-PART.

2. The present application is now before the examiner for consideration of the amendments filed September 20, 2006, and January 17, 2007, which will be considered as replies to the Final Office action mailed October 20, 2005, and immediate preparation of a new Office action.

3. Claims 9-14, and 58-73 are presently pending. Applicants canceled claim 8, and claims 9-14 were amended to depend from claim 58. The rejection of claims 8-14 under 35 USC 103(a) set forth in the Office Action mailed 10/20/2005 is withdrawn in response to Applicants cancellation of claim 8, and amendment to claims 9-14.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 9-14, and 58-73 remain rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, for the reasons of record, and for those reasons set forth below:

Instant claim 58 (and those claims dependent therefrom) remains vague and indefinite to the extent that the instant claim still recites wherein the “antisense strand that, when expressed as RNA, binds to an mRNA transcribed from the target nucleic acid sequence,” (see lines 15-16), this statement suggests that the antisense RNA produced from the sense stranded of the cloned double stranded DNA, targets an mRNA other than the mRNA product “coded for by a sample nucleic acid in the target nucleic acid” as set forth in the preamble of the claimed method.

Additionally, the nature of the “oligonucleotide family” recited in claim 58, line 7, is vague and indefinite. It is unclear if all of the oligonucleotide family members are designed to target one particular gene target or sample nucleic acid in said target, or if they have random sequences that target multiple genes.

Moreover, the instant claim is incomplete since there is no mention of a control, un-transfected host cell, such that changes in phenotype can be assigned to one particular antisense RNA targeting one particular gene target, by comparison of the transfected host cell, and the un-transfected host cell.

Claim 59 (and those claims dependent therefrom, claims 60-63, and 70), lines 2-3 recite “a catalytic domain that cleaves *an* mRNA sequence transcribed from the target nucleic acid,” this phrase is suggestive of multiple mRNA sequences transcribed from the target nucleic acid. However, as stated in claim 58 (from which this claim depends from), the intended objective of the claimed method is to assign a function associated with a product coded for by a “**sample nucleic acid sequence in** a target nucleic acid molecule.” Therefore, it is unclear if the entire scope of claim 59 and those claims

dependent therefrom, further limits claim 58, since the method of claim 59 involves wherein the RNA (assuming the RNA here refers to antisense RNA produced from the sense strand in claim 58) cleaves *an* mRNA sequence transcribed from the target nucleic acid.

Claim 59, recites the phrase "the RNA," in the first line. However, the metes and bounds of this phrase are vague and indefinite since it is unclear which RNA Applicants are referring to.

6. As stated in the Petition Decision mailed 12/20/2006, see page 3, last paragraph:

Contrary to applicant's assertions, no new ground of rejection is set forth in the Office action mailed on October 18, 2006; the examiner has merely expanded on the rationale for finding said claims indefinite.

The above grounds for rejection under 35 USC 112, 2nd were not considered to be *new grounds* of rejection as suggested by Applicants in the Petitions filed under 37 CFR § 1.821 mailed 10-30-06 and 1-16-07. Therefore, the above rejection is maintained for the reasons of record.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

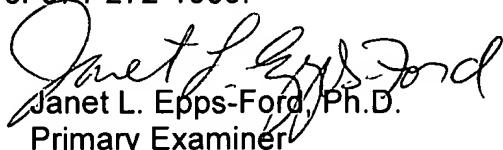
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet L. Epps-Ford whose telephone number is 571-272-0757. The examiner can normally be reached on M-F, 10:00 AM through 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on 571-272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Janet L. Epps-Ford, Ph.D.
Primary Examiner
Art Unit 1633

JLE